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Title

Production of amine coated surface and specific binding phase - by pulsed plasma application of amine to substrate and bonding of binding pair member to coated surface

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Patent Information

EP 806250	A2	19971112	(199751)*	DE	9[2]	<--
R: DE ES FR GB IT						
DE 19618926	A1	19971113	(199751)	DE	10	
JP 10114832	A	19980506	(199828)	JA	9	
US 5932296	A	19990803	(199937)	EN		

Application Information

EP 1997-107572 19970507; DE 1996-19618926 19960510; US 1997-852412 19970507; JP 1997-121173 19970512

Priority Application Information

DE 1996-19618926 19960510

IPC Reclassification

B05D0007-24 [I,A]; B05D0007-24 [I,C]; C07C0209-00 [I,A]; C07C0209-00 [I,C]; C07D0207-00 [I,C]; C07D0207-46 [I,A]; C07D0495-00 [I,C]; C07D0495-04 [I,A]; C08F0002-46 [I,C]; C08F0002-52 [I,A]; C08J0007-00 [I,C]; C08J0007-04 [I,A]; C08J0007-18 [I,A]; C09D0201-02 [I,A]; C09D0201-02 [I,C]; G01N0033-543 [I,A]; G01N0033-543 [I,C]; G01N0033-544 [I,C]; G01N0033-547 [I,A]

Abstract

EP 806250 A2 UPAB: 20050519

Production of a surface coated with amino groups comprises the application of a polymerisable amine to a substrate using pulsed plasma.

Also claimed is the production of a specific binding phase by the covalent bonding of one partner of a specific binding pair to the thus-coated surface.

In the production of the specific binding phase, polyethylene glycol or one of its derivatives may be bonded to the coated surface as an additional component, suitably in a molar ratio of 0:100-99:1.

USE - The binding phase can be used as a solid immunoassay phase (e.g. for binding with proteins) or for medical purposes, e.g. as an implant.

ADVANTAGE - The pulsed plasma application gives surfaces having improved properties, e.g. higher amine content and improved reproducibility, over those obtained using prior art techniques, including continuous wave plasma. This enables the subsequent production of binding phases having high sensitivity and specificity.

Accession Number

1997-552157 [51] WPINDEX

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